

PdfMerge - An Open Source Pdf Splitter/Merger with bookmark importing.

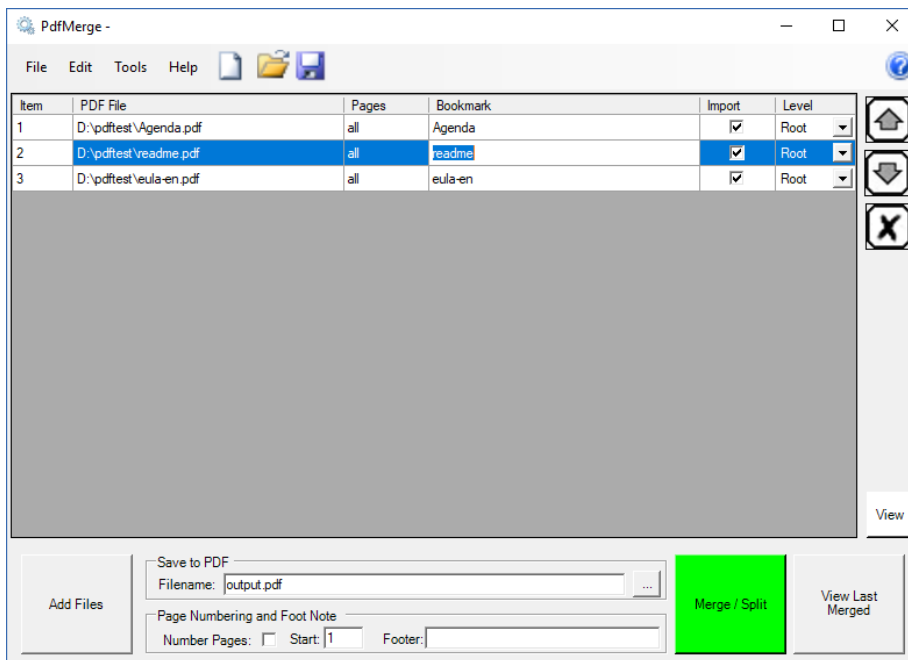
Abstract

PdfMerge was written to fill the need for producing large PDF documents from multiple sources in an automated way. To serve this need it meets the following requirements:

- Allow the split/merge process to be programmatically driven
- Allow the creation of bookmark trees by specifying bookmarks to be added
- Allow the import of bookmarks from the merged documents.
- Support merging of large documents quickly
- Allow population of document title fields
- Supports optional page numbering and footer annotation

GUI Usage

The main GUI is as follows:



To get started:

- Open PdfMerge
- Drag and drop PDF files into the grid
- Change the bookmark names in the grid
- Enter a filename under "Save to PDF"
- Click "Merge"
- Click "View Last Merged"

Saving a Merging Plan

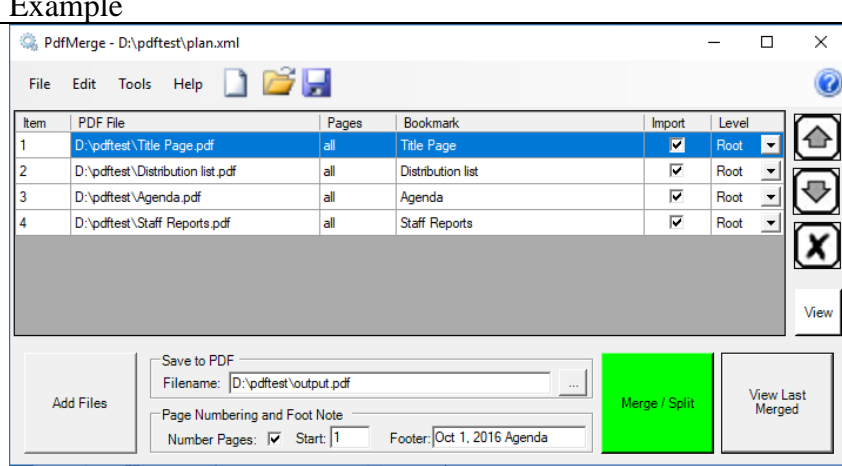
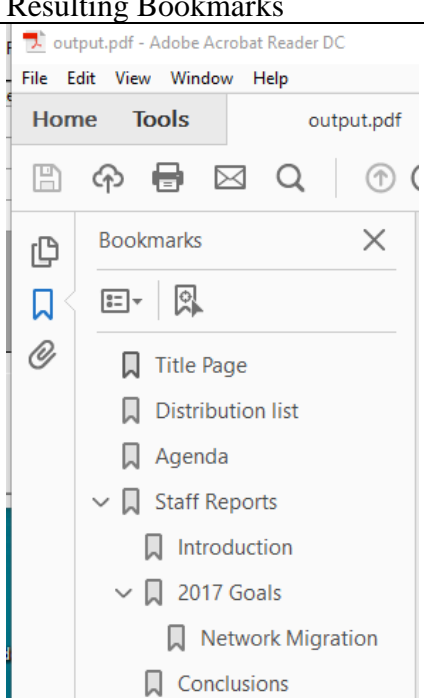
PdfMerge allows you to save and recall merge a merging plan into a command file. This is done using the “File” menu or the tool bar open and save buttons. This command file can also be used programmatically as explained here:

MERGE COMMAND FILE – PLAIN TEXT FORMAT

MERGE COMMAND FILE – XML FORMAT

Importing and Adding Bookmarks

The easiest approach to bookmarks is to add all the files needed, and then select [Tools → Copy All Filenames to Bookmarks](#). This will cause the file names to be entered in to the bookmark column and all the bookmarks in each file will be imported at one level below the specified bookmarks.

Example						Resulting Bookmarks
						

Item	PDF File	Pages	Bookmark	Import	Level
1	D:\pdftest\Title Page.pdf	all	Title Page	<input checked="" type="checkbox"/>	Root
2	D:\pdftest\Distribution list.pdf	all	Distribution list	<input checked="" type="checkbox"/>	Root
3	D:\pdftest\Agenda.pdf	all	Agenda	<input checked="" type="checkbox"/>	Root
4	D:\pdftest\Staff Reports.pdf	all	Staff Reports	<input checked="" type="checkbox"/>	Root

Add Files

Save to PDF

Filename: D:\pdftest\output.pdf

Page Numbering and Foot Note

Number Pages: ☒ Start: 1 Footer: Oct 1, 2016 Agenda

Merge / Split

View Last Merged

output.pdf - Adobe Acrobat Reader DC

File Edit View Window Help

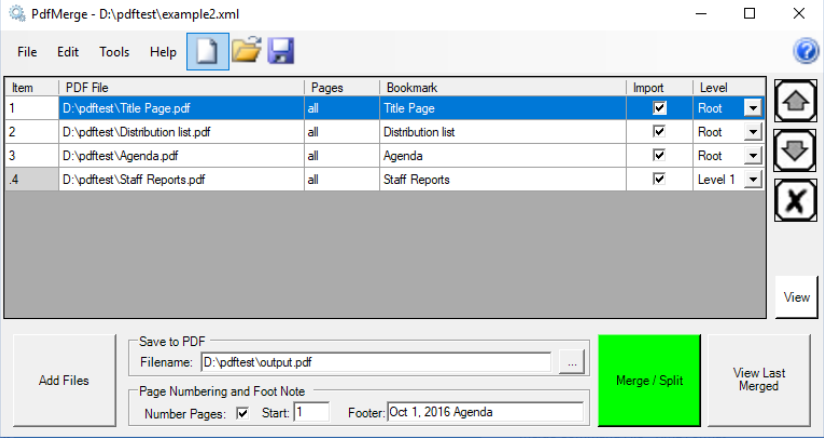
Home Tools output.pdf

Bookmarks

- Title Page
- Distribution list
- Agenda
- Staff Reports
 - Introduction
- 2017 Goals
 - Network Migration
- Conclusions

Another example is shown below using the “Level” column to import at different levels in the bookmark tree. In this case the bookmarks from the staff report PDF are imported at level 1 under the agenda bookmark.

Example



Item	PDF File	Pages	Bookmark	Import	Level
1	D:\pdftest\Title Page.pdf	all	Title Page	<input checked="" type="checkbox"/>	Root
2	D:\pdftest\Distribution list.pdf	all	Distribution list	<input checked="" type="checkbox"/>	Root
3	D:\pdftest\Agenda.pdf	all	Agenda	<input checked="" type="checkbox"/>	Root
4	D:\pdftest\Staff Reports.pdf	all	Staff Reports	<input checked="" type="checkbox"/>	Level 1

Add Files

Save to PDF

Filename: D:\pdftest\output.pdf

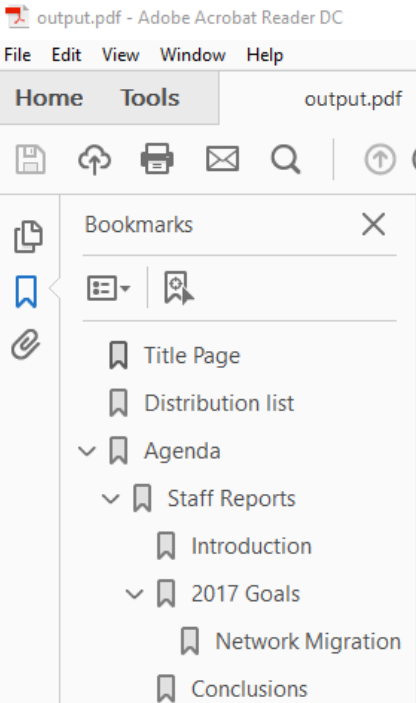
Page Numbering and Foot Note

Number Pages: ☒ Start: 1 Footer: Oct 1, 2016 Agenda

Merge / Split

View Last Merged

Resulting Bookmarks



output.pdf - Adobe Acrobat Reader DC

File Edit View Window Help

Home Tools output.pdf

Bookmarks

- Title Page
- Distribution list
- Agenda
 - Staff Reports
 - Introduction
 - 2017 Goals
 - Network Migration
- Conclusions

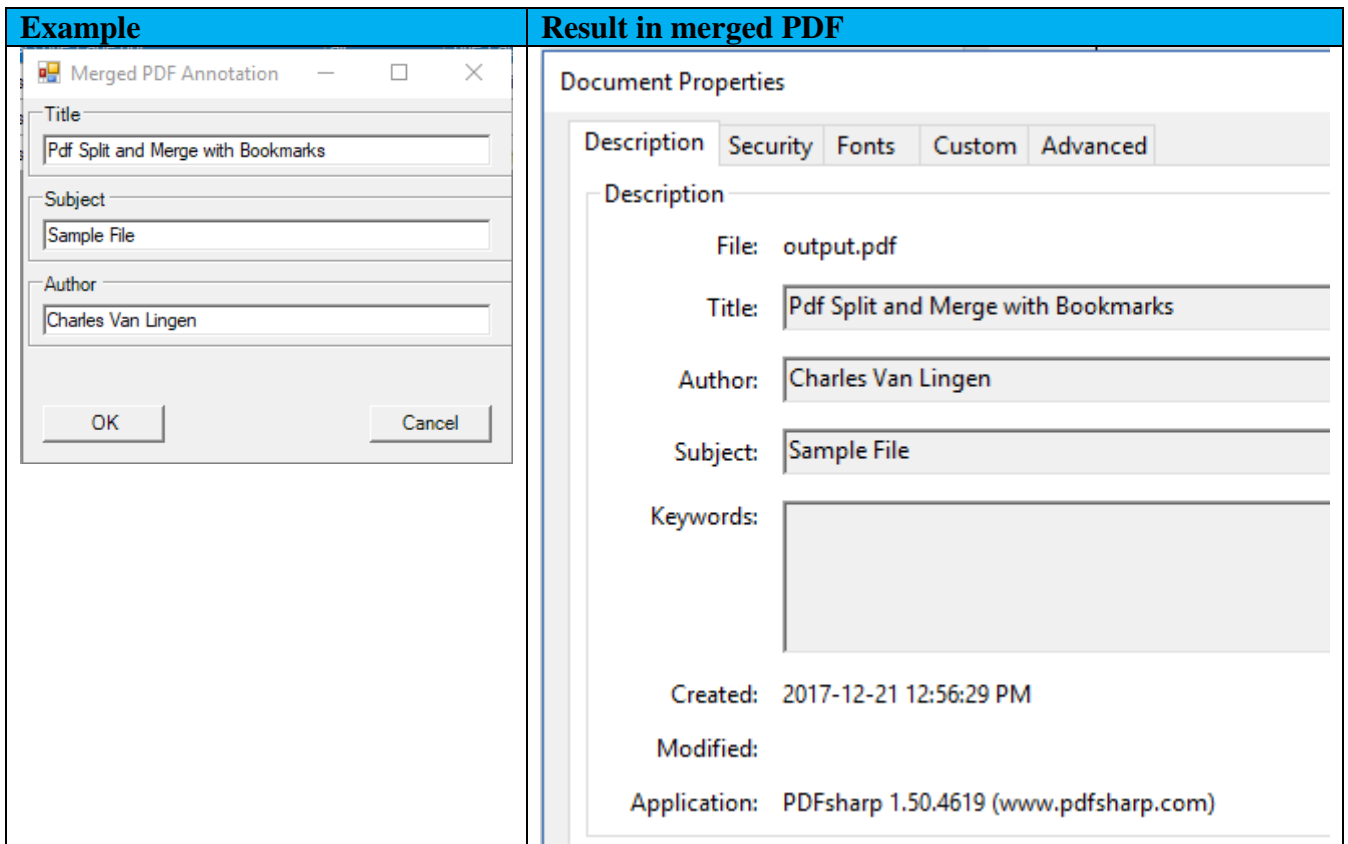
Numbering Pages and Adding Footers

PdfMerge will add page numbers and footnotes to the merged PDF if desired. An example is shown below.

Example	
<div><div>Save to PDF</div><div>Filename: <input type="text" value="D:\pdftest\output.pdf"/> ...</div><div>Page Numbering and Foot Note</div><div>Number Pages: <input checked="" type="checkbox"/> Start: <input type="text" value="1"/> Footer: <input type="text" value="Oct 1, 2016 Agenda"/></div></div>	
Resulting PDF	
<div><div>Agenda Monday October 1st, 2016</div><div><ol style="list-style-type: none">1. Welcome2. Motion to adopt the agenda3. Discuss assignments4. Staff Reports – see attached5. Correspondence6. Closing</div></div> <div><div>Oct 1, 2016 Agenda</div><div>Page 3 of 7</div></div>	

Setting the Annotation Fields in the Merged PDF

Set the title, subject, and author fields using the menu item *Tools* → *PDF Annotations*.



Using Page Number Ranges to Split PDF Files

By default, PdfMerge will include all pages in a result. To split out a subset of pages specify a page range in “Pages” column.

Valid page number range examples:

Entry	Result
all	All pages (default)
1	Splits out page 1 only
1-4	Splits out pages 1 to 4
1-4;10;12	Splits out pages 1,2,3,4,10,12

Frequently Asked Questions

	Answer
How do I split files?	Enter a range of pages in the Pages column
Are bookmark actions preserved?	No, the resulting bookmarks will only go to the page.

Command Line Syntax

Programmatic merge:

Pdfmerge <merge_command_file_name> <output_file_name>

Original interactive merge GUI:

Pdfmerge <output_file_name>

Improved interactive merge GUI with load and save capability:

Pdfmerge

Merge Command File – Plain Text Format

Merge files are used from the GUI or from the command line to perform merges programmatically.

Programmatic merge:

Pdfmerge <cmd_file_name> <output_file_name>

Interactive merge (original GUI):

Pdfmerge <output_file_name>

Each line of the merge file contains

<pdf filename>; <page range>; <password>; <bookmark (optional)>;level (optional)

Option	Description	Examples
<i>pdf filename</i>	Any valid pdf filename.	c:\tmp\shell.pdf compliance.pdf
<i>page range</i>	The range of pages to extract	1 (page one only) 1-4 (pages one to four) all (all pages)
<i>include</i>	If set to “exclude” bookmarks will not be imported	include exclude
<i>bookmark</i>	Optional bookmark name. If not specified file bookmarks will not be imported. If specified file bookmarks will form a sub tree under the specified bookmark.	LevelOneBookMark >SubBookMark
<i>level</i>	This is used to arrange bookmarks in a hierarchy. An exception will result if a level is skipped. The default is the root level.	1 2 3

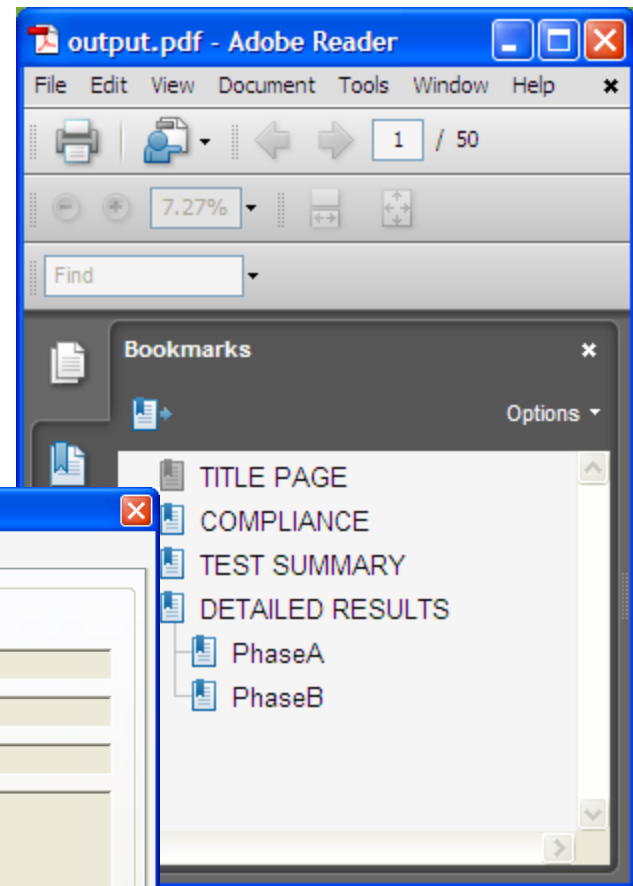
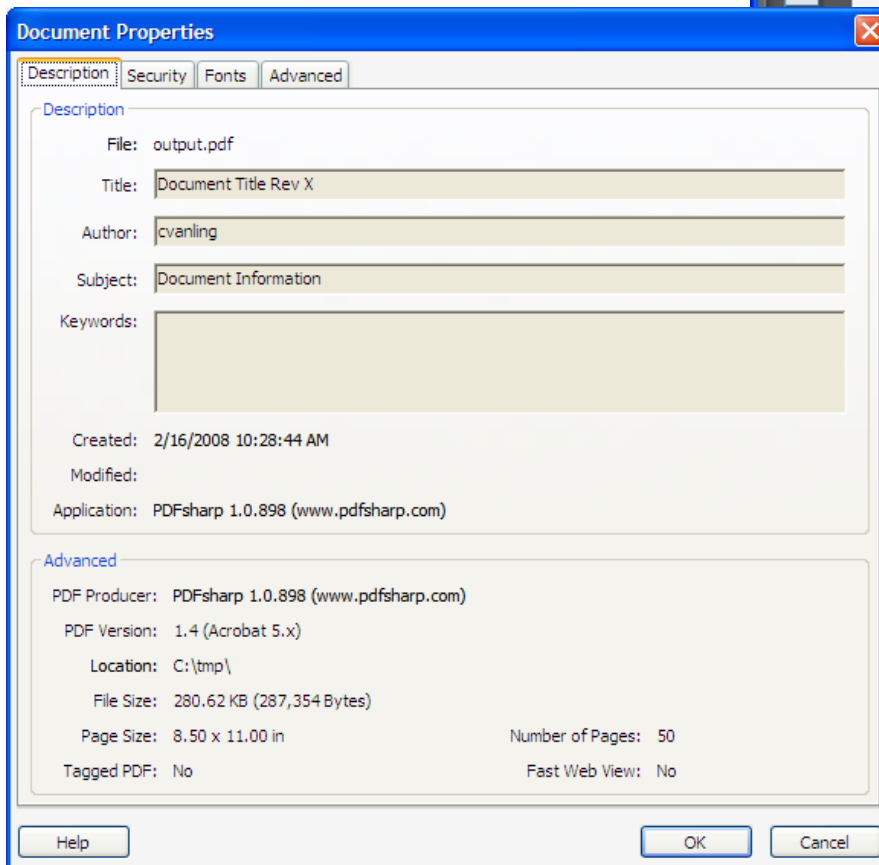
An optional information line may be added to the end:

[Info];<Document Title>;<Document Subject>

This information will populate the title and subject information fields in the PDF file.

This is a sample merge file and result:

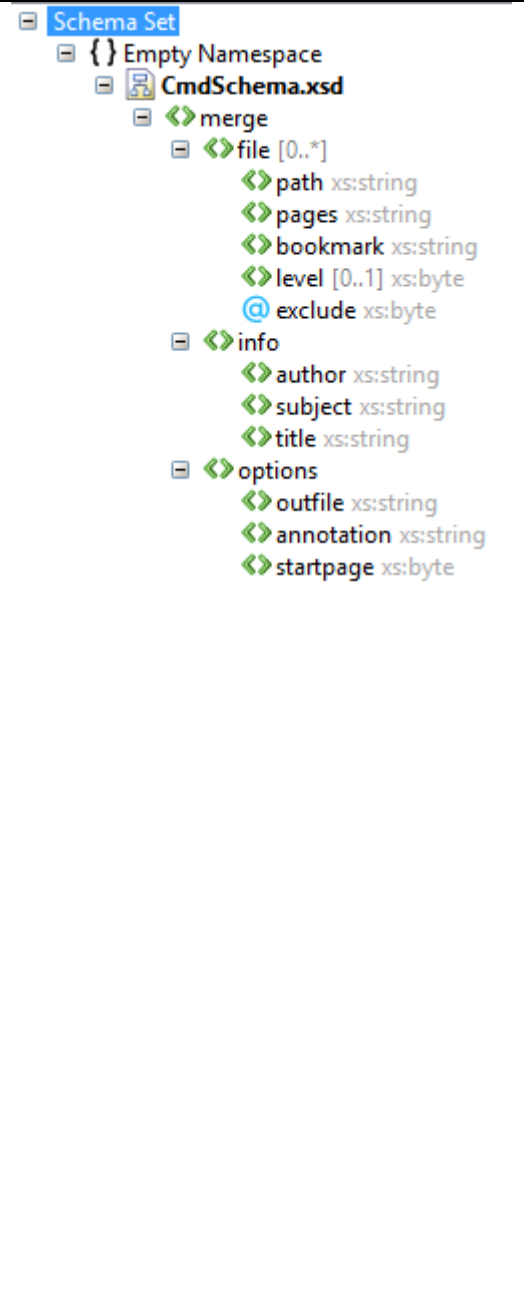
```
c:\tmp\shell.pdf;1-4;include;TITLE PAGE
c:\tmp\shell.pdf;5;include
c:\tmp\compliance.pdf;all;include;COMPLIANCE
c:\tmp\shell.pdf;6;include
c:\tmp\summary.pdf;all;include;TEST SUMMARY
c:\tmp\shell.pdf;7;include
c:\tmp\shell.pdf;8;include;DETAILED RESULTS
c:\tmp\shell.pdf;11;include
c:\tmp\phasea.pdf;all;include;PhaseA;1
c:\tmp\shell.pdf;12;include
c:\tmp\phaseb.pdf;all;include;PhaseB;1
[Info];Document Title Rev X;Document Information
```



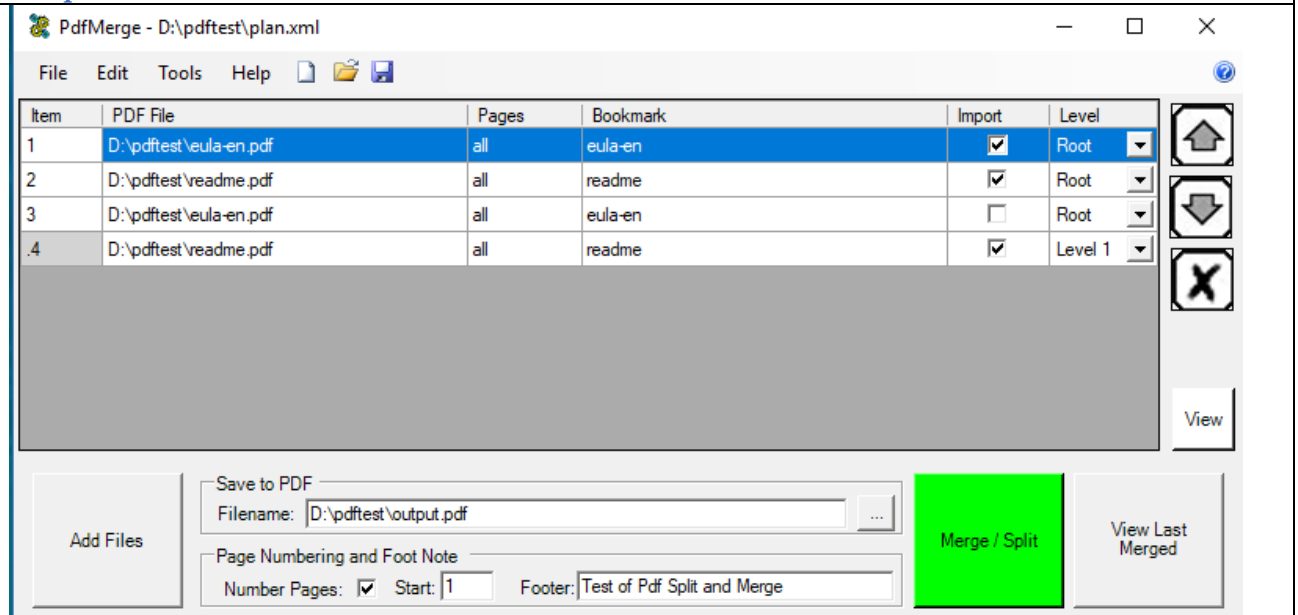
Merge Command File – XML Format

XML format is the preferred format for command files and should always be used when Unicode bookmarks are required. If you are generating XML from an external program, please ensure a utf-16 file is being created.

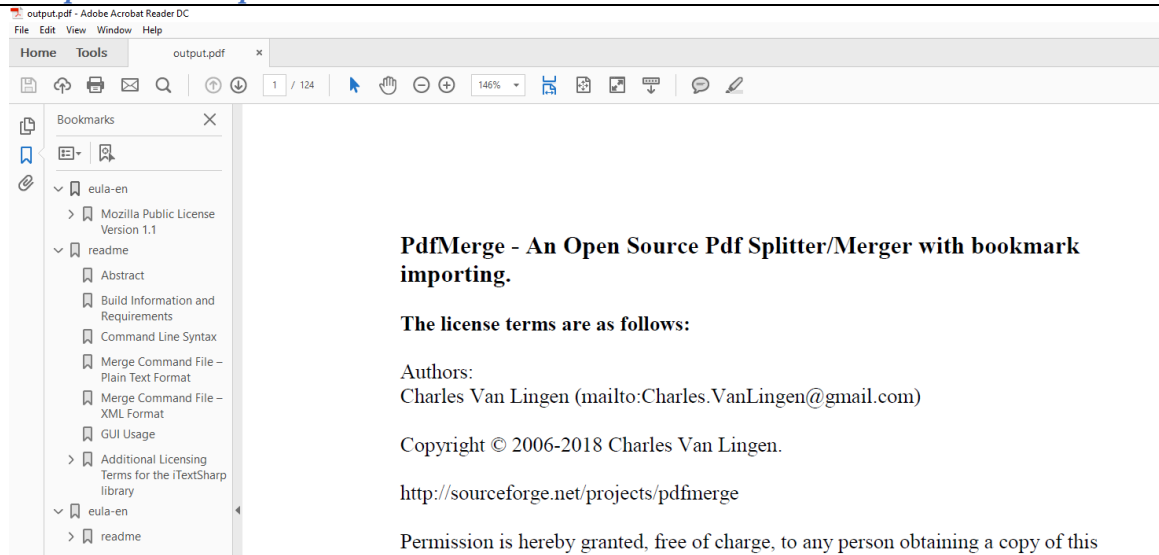
The XML schema and sample XML are shown below:

XML Schema	Example XML Command File
 <p>The XML Schema diagram shows a hierarchy starting with 'Schema Set', followed by 'Empty Namespace', then 'CmdSchema.xsd'. Under 'CmdSchema.xsd' is the 'merge' element. The 'merge' element contains a 'file' element with a cardinality of '[0..*]'. The 'file' element has attributes: 'path' (xs:string), 'pages' (xs:string), 'bookmark' (xs:string), 'level' (xs:byte with a range of '[0..1]'), and 'exclude' (xs:byte). Additionally, the 'merge' element contains an 'info' element with attributes 'author' (xs:string), 'subject' (xs:string), and 'title' (xs:string). Finally, the 'merge' element contains an 'options' element with attributes 'outfile' (xs:string), 'annotation' (xs:string), and 'startpage' (xs:byte).</p>	<pre><?xml version="1.0" encoding="utf-16"?> <merge> <file> <path>D:\pdftest\eula-en.pdf</path> <pages>all</pages> <bookmark>eula-en</bookmark> </file> <file> <path>D:\pdftest\readme.pdf</path> <pages>all</pages> <bookmark>readme</bookmark> </file> <file exclude="1"> <path>D:\pdftest\eula-en.pdf</path> <pages>all</pages> <bookmark>eula-en</bookmark> </file> <file> <path>D:\pdftest\readme.pdf</path> <pages>all</pages> <bookmark>readme</bookmark> <level>1</level> </file> <info> <author>Charles Van Lingen</author> <subject>Sample File</subject> <title>Pdf Split and Merge with Bookmarks</title> </info> <options> <outfile>D:\pdftest\output.pdf</outfile> <annotation>Test of Pdf Split and Merge</annotation> <startpage>1</startpage> </options> </merge></pre>

Sample XML in GUI:



Sample XML Output



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<http://sourceforge.net/projects/pdfmerge>

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Version 3, 29 June 2007

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